

Renewable Energy Feasibility Study

Ft. Mojave Indian Reservation

FY 2003 Program and Project Review Meeting

November 17-20, 2003

Fort Mojave Indian Reservation



44,000 acres in AZ, CA and NV
14,000 acres of irrigated farmland
1000 Tribal members

Project Background

- Aha Macav Power Service distributes energy on the reservation – formed 1991
- One of several important tribal enterprises
 - Farm, casino, RV park, construction firm, telecommunications, water/sewer, housing developments
- Need for increased tribal energy supplies
 - Result of aggressive and successful economic projects
- Other fossil/nuclear energy supplies are available
- Tribal interest in investigating feasibility and desirability of renewable energy sources
 - Reduce energy dependence of off-reservation sources
 - Demonstrate Tribe's support for improving environmental quality, sustainability, and energy independence on- and off-reservation
- Feasibility study team led by Russell Gum, PhD

Project Team Members

- Russell Gum, PhD – Project Manager
- Charlie McCauley, PhD – Review solar, wind and environmental issues
- Eric Oswald, PhD – NEPA issues; multiple objective planning
- Jeff Oldham – PV and energy efficiency
- Paul Brown, PhD – Meteorologist
- Tom McGuire, PhD – Anthropologist; cultural issues
- Del Wakimoto – Crop management
- General Manager, Aha Macav Power Service – Energy distribution, marketing

Project Stages/Objectives

- Identification of resources
- Identification of technologies
- Definition of goals of economic development, environmental quality, sustainability, and energy independence
- Technical, economic, and environmental analysis to select potentially practical and effective technologies
- Detailed analysis of those technologies meeting the potentially practical and effective test
- Develop a detailed plan for implementation

Potential Energy Resources

- Crop waste from 14,000 acres of irrigated land
- Solar energy
- Wind energy
- Animal manure




Possible Technologies



- Wind turbines
- Biodigester
- Fuel Pellets
- Gasification
- PV
- Biodiesel

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Renewable Energy Feasibility

Welcome to the website for the Renewable Energy Study for the Ft. Mojave Reservation funded by DOE.

We will be using this website to both communicate among the project team as well as other interested parties. This website can be considered an experiment in using the internet to help organize and communicate information on our investigation of the feasibility of developing renewable energy on the Ft. Mojave Reservation.

Comments on our ongoing progress are welcome. You will have to sign up as a member to be able to post comments.

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- Open access to the information and process we are using for the feasibility study.
- Use our information.
- Add to this shared information base.

Knowledge Base

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Author: **admin** 

Date : Oct 12, 2003 1:00 pm

Post comments on the Methane from crop wastes - other technologies KB here.

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